BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

Name of Work: "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

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Civil Aim Consultants and Engineers

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QC ABSTRACT

Nameof Work: "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub Division", BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	1:3:6	9.24 Cum	1	1	Pass
2	Steel	4252.73 Kgs	1	1	Pass
3	CC Blocks -8'	92.31 Sqm	1	1	Pass
4	CC Blocks -6'	47.04 Sqm	1	1	Pass
5	CC Blocks -4'	38.02 Sqm	1	1	Pass
6	M15	13.73 Cum	2	3	Pass
7	M25	39.39 Cum	4	6	Pass
8	CPVC Pipes-20mm	23.00 Mtr	1	1	Pass
9	PVC Pipes-100mm	12.00 Mtr	1	1	Pass
10	Ceramic Tiles	2.16 Sqm	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

AE-01

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Authorised Signatory

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Job No.: CACE/BBMP/LV/W.No.01/2022-23

Date : 15.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work :"Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Date of Testing : 15.02.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	75	7.50	7.50	92.5	90-100
2.36	129	12.90	20.40	79.6	75-100
1.18	172	17.20	37.60	62.4	55-90
600 Micron	159	15.90	53.50	46.5	35-59
300 Micron	224	22.40	75.90	24.1	8-30
150 Micron	172	17.20	93.10	6.9	0-10

Note:

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Job No.: CACE/BBMP/LV/W.No.01/2022-23

Date : 15.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work :"Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Date of Testing : 15.02.2023

Material : Sand - Masonry

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	25	2.50	2.50	97.5	90-100
1.18	45	4.50	7.00	93.0	70-100
600 Micron	90	9.00	16.00	84.0	40-100
300 Micron	245	24.50	40.50	59.5	5-70
150 Micron	485	48.50	89.00	11.0	0-15

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Job No.: CACE/BBMP/LV/W.No.01/2022-23

Date : 15.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work :"Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Date of Testing : 15.02.2023

Material : Plastering Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	30	3.00	4.40	95.6	95-100
1.18	42	4.20	8.60	91.4	90-100
600 Micron	85	8.50	17.10	82.9	80-100
300 Micron	235	23.50	40.60	59.4	20-65
150 Micron	498	49.80	90.40	9.6	0-15

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Job No.: CACE/BBMP/LV/W.No.01/2022-23

Date : 13.03.2023

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of the Work :"Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Date of Testing : 13.03.2023

Size of Blocks : 400mm x 100mm x 200mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 01

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	21.2	165.1	4.13	265.00	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	21.5	167.8	4.20	268.75	
3	Block 3	21.1	164.3	4.11	263.75	
4	Block 4	21.9	169.3	4.23	273.75	

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15-03

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Job No.:CACE/BBMP/LV/W.No.01/2022-23

Date : 13.03.2023

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP,**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor,**

Name of the Work :"Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Date of Testing : 13.03.2023

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.8	352.7	4.41	2050.00	Minimum required Compressive Strength of Individual Units $4.00N/mm^2$
2	Block 2	33.4	357.8	4.47	2087.50	
3	Block 3	33.7	361.9	4.52	2106.25	
4	Block 4	34.1	362.4	4.53	2131.25	

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Job No.:CACE/BBMP/LV/W.No.01/2023-24

Date : 21.04.2023

TEST REPORT ON PVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work :"Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 4985:2000

Sample Identification: PVC pipe 100mm dia

Date of Testing 21.04.2023

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	100	100 mm
2	Mean Outside Diameter (mm)	100.4	Min 100 mm Max 100.4 mm
3	Outside Diameter at Any Point (mm)	100.6	Min 100.2 mm Max 100.8 mm

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Job No.: CACE/BBMP/LV/W.No.01/2022-23

Date: 28.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete for Footing

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.02.2023	28.02.2023	8.115	395.2	17.56
2	21.02.2023	28.02.2023	8.140	398.3	17.70
3	21.02.2023	28.02.2023	8.157	406.7	18.08

Note:

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Job No.: CACE/BBMP/LV/W.No.01/2022-23

Date: 21.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete for Footing

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.02.2023	21.03.2023	8.165	606.3	26.95
2	21.02.2023	21.03.2023	8.173	619.8	27.55
3	21.02.2023	21.03.2023	8.189	625.6	27.80

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Date: 27.03.2023

Job No.: CACE/BBMP/LV/W.No.01/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete for Column Below Plinth Level

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	27.03.2023	8.190	605.3	26.90
2	27.02.2023	27.03.2023	8.195	611.3	27.17
3	27.02.2023	27.03.2023	8.199	618.7	27.50

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Job No.: CACE/BBMP/LV/W.No.01/2022-23 Date: 16.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete for Plinth Beam

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.03.2023	16.03.2023	8.140	398.3	17.70
2	09.03.2023	16.03.2023	8.159	405.1	18.00
3	09.03.2023	16.03.2023	8.164	408.7	18.16

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Job No.: CACE/BBMP/LV/W.No.01/2023-24 Date: 06.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete for Plinth Beam

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.03.2023	06.04.2023	8.175	606.1	26.94
2	09.03.2023	06.04.2023	8.189	609.8	27.10
3	09.03.2023	06.04.2023	8.192	616.4	27.40

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Job No.: CACE/BBMP/LV/W.No.01/2022-23

Date: 23.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete for Column above Plinth Beam

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2023	23.03.2023	8.117	391.2	17.39
2	16.03.2023	23.03.2023	8.121	395.1	17.56
3	16.03.2023	23.03.2023	8.138	399.7	17.76

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Job No.: CACE/BBMP/LV/W.No.01/2023-24

Date: 26.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete for Lintel

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2023	26.04.2023	8.175	609.3	27.08
2	29.03.2023	26.04.2023	8.182	615.6	27.36
3	29.03.2023	26.04.2023	8.189	621.4	27.62

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Date: 08.05.2023

Job No.: CACE/BBMP/LV/W.No.01/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete for Roof Beam and Roof Slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2023	08.05.2023	8.171	603.6	26.83
2	10.04.2023	08.05.2023	8.178	602.7	26.79
3	10.04.2023	08.05.2023	8.201	611.5	27.18

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Date: 11.03.2023

Job No.: CACE/BBMP/LV/W.No.01/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.03.2023	11.03.2023	8.120	270.5	12.02
2	04.03.2023	11.03.2023	8.132	271.9	12.08
3	04.03.2023	11.03.2023	8.145	274.3	12.19

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/LV/W.No.01/2022-23

Date: 11.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.05.2023	11.05.2023	8.132	275.1	12.23
2	04.05.2023	11.05.2023	8.157	277.4	12.33
3	04.05.2023	11.05.2023	8.162	279.8	12.44

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Job No.: CACE/BBMP/LV/W.No.01/2022-23 Date: 01.06.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.05.2023	01.06.2023	8.185	380.2	16.90
2	04.05.2023	01.06.2023	8.192	384.7	17.10
3	04.05.2023	01.06.2023	8.197	389.5	17.31

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Date: 01.06.2023

Lab No.: CACE/BBMP/LV/W.No.01/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Name of the work : "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.05.2023	01.06.2023	8.165	375.3	16.68
2	04.05.2023	01.06.2023	8.169	377.2	16.76
3	04.05.2023	01.06.2023	8.175	380.5	16.91

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